



Partner Portrait

COLDWATER MACHINE COMPANY – GROWING TO SUPPORT YOUR NEEDS.



Building extension

In addition to the integration of the Harms & Wende products and technologies, CMC is staffed to provide fully engineered cells or systems for processes like piercing, blanking, staking, flattening,

coining, extruding, drawing, trimming, forming, riveting, bending, joining, fastening, welding (mig, tig, plasma, laser, friction, spot, inertia, ultrasonic, etc.), finishing, hard check inspection, vision and non-contact inspection, degradation testing, part transfer,

Coldwater Machine Company (CMC) is a proud partner of Harms & Wende (HWH), with a relationship that had a formal beginning in 2007. Coldwater Machine Company and Harms & Wende have partnered to advance the presence of Solid State Welding in the North American market through the application of Friction Spin and Refill Friction Stir Spot Welding.

A key component that has allowed this relationship to be successful, has been CMC's ability to utilize the team's knowledge and experience of providing innovative engineered solutions to the Aviation, Energy, Automotive, Appliance and other industries.

Existing relationships and the reputation of CMC within these industries helps to define Coldwater Machine Company as the ideal partner to support the integration of the products and technologies that Harms & Wende has developed.

Coldwater Machine Company has a 60 year history of providing quality services to North America industrial O.E.M.'s in the commodity goods manufacturing market.

CMC's core business is special purpose metal working equipment and Assembly Automation equipment for durable goods manufacturers, with a reputation for providing innovative solutions that are durable and reliable.

part feeding, cleaning, machining, and assembly.

In 2013, Coldwater Machine Company is adding 30,000 sq. ft. to the existing plant, along with strategic additions to their staffing. These additions are necessary to support the expanding activities in the designing and building of Specialty Factory Automation, and the growth CMC is experiencing in the Friction Spin (FSW) and Refill Friction Stir Spot welding (RFSSW) business segment.

The building addition will also provide the space required to install additional CNC machine tools and inspection equipment necessary to support ongoing internal manufacturing activities, including the build-to-print activity for precision parts and assemblies.

The additions taking place in 2013 will allow Coldwater Machine Company to properly maintain the direct support activities provided to customers in

The modular design can be adapted for use in concepts involving Automated loading or Manual loading, Dial table transfer or In-line transfer systems, multiple fixed weld head designs or X-Y transfer tables under a single weld head, and/or adapt to other unusual configurations.

When the scope falls outside using modular components, CMC offers custom solutions based on special customer needs.



Friction welders

After working with the customer to develop, design and build a complete system, CMC provides equipment validation, process verification,



developing and implementing Friction Weld applications.

A typical Friction Weld application procedure begins with the product evaluation and part testing in the CMC Friction Weld Lab.

Once feasibility has been determined, CMC works closely with the involved parties to optimize all the inputs to the welding process so it will be functionally acceptable within a production environment.

As required, CMC provides the necessary designs and equipment to accommodate integration of a Friction Weld Cell by third parties or full integration for the End User by CMC.

Cost effective value is generated in part by utilizing standardized modular machine base designs that are pre-engineered for a variety of cell concepts.



training, installation, and warranty support to ensure that the end results meet or exceeds the Customer's needs and expectations for the life-cycle of the application.

When you are thinking of a company that is committed to aligning value with customer service, then you are thinking of Coldwater Machine.

CMC believes that a successful business relationship requires that both companies overtly commit their

Partner Portrait

Continuation



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resources to a common objective of getting things done efficiently through effective dedication to the project.

This is a cultural trait that sets

CMC apart in this industry and gives CMC a sought-after advantage to continue a successful legacy.

To learn more, visit www.coldwater-machine.com.

With this version of the weld times we start a series of articles where we present out international partners.

The idea is that you learn about our growing network and capabilities.

The network is for your advantage to get service and information you require.

*Jörg Eggers,
Head of Export*

HWH offers capacitor discharge packages

High power in a very short time offers new possibilities.

As our HWH reader, you know us as manufacturer of resistance welding equipment running from main frequency (AC) via MFDC (1000 Hz)

to high frequency (HF) equipment. As an extension to our business we have now introduced capacitor discharge packages. These packages

comprise both the power part as well as the transformer. Our packages are suitable for new machines as well as for refurbishing used machines.

CD welding offers new possibilities in welding like large projection welds as well as complex material joints with very hard materials.

Transformer secondary voltages up to 45 V bridge almost any secondary. Here are some key figures of our packages:

Parameter	Unit	KE-Micro 1	KE-Mini	KE-Mini	KE-Midi	KE-Maxi
Maximum weld energy	kJ	0,4	2	6	16	36
Transformer power	KVA	50	200	300	400	2 x 400
Short circuit weld current	kA	5	20	80	200	400

Our packages operate under 400, 440 and 480 V.

HWH – Competence world wide

Harms & Wende technology successful in Korea.

Recently, at a Korean automotive OEM, regulations capabilities were compared. At the end of the test, our IQR became the number one product!

Our partner MDT installed one system in the laboratory and programmed the base parameters. Then the tests were made by the specialists of the OEM.

The tests represented daily process fluctuations and how the system reacted on each. In the final comparison, the IQR showed best results with

quite some distance to the next system. We have a large number of installations in Korea and in overseas plants all confirming these results. In July, our export manager Mr. Jörg Eggers and

myself visited our partner MDT as well as many important customers. We discovered that many new projects are in focus where our GeniusMFI will be utilized. While we were there, the MDT staff was trained with respect to the different aspects of our products. Another series of training will take place in Hamburg later in 2013. As a note: just one week after our visit, our first orders came in for two full production lines.

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